

REPORT NO. 3

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State of Florida



Cotton Fiber and Processing Test Results

CROP of

1978



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 October 6, 1978

COTTON FIBER AND PROCESSING TEST RESULTS, CROP of 1978

Discussion of Test Results

The average Fibrograph 2.5% span length of short staple samples tested from the Southwest through September 29 is shorter than a year ago at this time, according to the Cotton Division, Agricultural Marketing Service, USDA. Cottons tested to date show fibers to be slightly finer and stronger at zero gage fiber strength, but weaker at 1/8" gage tests. Both Shirley Analyzer nonlint content and picker and card waste are higher than a year ago. Yarns spun from these samples are weaker but have higher appearance grades. Yarn imperfections are fewer than a year ago. The average spinning potential yarn number is lower.

Medium staple samples tested from the Southwest show cotton fibers to be slightly shorter, less uniform, coarser and stronger than a year ago. Both Shirley Analyzer nonlint content and picker and card waste are higher than last season. Yarns spun from these samples are weaker with lower appearance grades. The average spinning potential yarn number is lower.

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.^{1/} These reports are available on request from the Standards Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

^{1/} Summary of Cotton Fiber and Processing Test Results, Crop of 1977, USDA, AMS, Cotton Division, August 1978.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through September 29, 1978

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table.

3/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1978

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns										
Grade		Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns Neps/M Yards		Spin. Poten- tial		
				2.5% span	Unif		Zero Gage	1/8" Gage			Gr	Yel		8s or 74 tx	Lbs	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx		22s or 27 tx	
No	Name & Code			In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No		Pct	Lbs	Pct	Pct	No	No	No	No	No		
SOUTHWEST AREA																								
CENTRAL TEXAS																								
COMMERCE																								
1	MID LT SP	32	29	0.92	47	4.6	93	21	LANKART 57	5.1	2.4	2	5	5.8	277	88	6.4	5.6	130	120	3	(0)	1 (22)	34
ROSEBUD																								
3	MID LT SP	32	30	0.90	44	3.9	93	20	LANKART 57	5.1	3.5	2	5	7.1	274	92	6.7	5.7	120	110	3	(14)	1 (18)	32
WACO																								
41	30	0.92	45	3.9	94	22	4.8	LANKART LX571	4.1	2	4	7.5	285	99	6.4	5.5	120	110	4	(4)	1 (2)	38		

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument

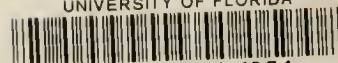
Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1978

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns											
Grade Name & Code		Stple	32s	Digital Fibrogram		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns Neps/M Yards				Spin. Potent'ial
				2.5% span	Unif.		Zero Gage	1/8" Gage		Pct	Mpsi	G/tex	Pct		Pct	No	Yel	Pct	Lbs	Pct	Pct	No	No	22s or 27 tx	
No				In	Pct	Rdg																			
SOUTH CENTRAL AREA																									
MISSOURI																									
1	SLM	41	35	1.11	46	4.6	82	23	STONEVILLE 213	5.8	3.1	2	3	4.9	103	90 PERCENT	35	6.6	4.7	70	60	28	(220) 21	(554) 54	
SOUTHWEST AREA																									
CENTRAL TEXAS																									
3	SLM LT SP	42	35	1.11	45	4.0	84	22	STONEVILLE 213	5.8	3.0	2	4	6.6	107	95 PERCENT	35	6.6	4.8	70	70	26	(156) 18	(458) 51	
FERRIS																									
2	SLM	41	30	0.94	43	3.6	93	21	TAMCOT SP37	5.0	5.9	2	4	8.5	81	75 PERCENT	27	5.2	4.5	80	60	17	(42) 14	(282) 38	
NAVASOTA																									
2	SLM LT SP	42	35	1.09	45	4.6	87	25	DELTAPINE 16	6.0	3.0	3	4	4.5	120	100 PERCENT	41	7.0	5.3	90	80	13	(48) 12	(250) 63	
WEST AREA																									
CALIFORNIA																									
1	MID	31	34	1.05	46	4.9	92	25	DELTAPINE 61	5.2	1.6	1	3	4.8	95	97 PERCENT	29	5.4	3.8	100	70	11	(86) 9	(276) 44	

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

1/ Parentheses indicate the neps per 1000 yards of yarn as measured by the Uster instrument.

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